# What's love got to do with it? An experimental test of household models in East Uganda

Vegard Iversen\*, Cecile Jackson\*, Bereket Kebede\*, Alistair Munro\*\*, Arjan Verschoor\*

\*University of East Anglia
\*\*Royal Holloway, University of London

RES-167-25-0251 - The intrahousehold allocation of resources: cross-cultural tests, methodological innovations and policy implications.





# Structure of presentation

- 1. Introduction
- 2. Main conclusions
- 3. The games
- 4. The villages
- 5. Results

#### 1. Introduction

- Motivation
- directly testing assumptions of intrahousehold models using experimental methods
- 2. combining experimental data with survey data
- combining economic approaches in intrahousehold studies with insights from anthropology/sociology
- Using this study as a pilot for bigger project

#### 2. Main conclusions

- Surplus maximisation rejected
- A greater surplus realised when women are in charge of common account
- →contradicts unitary and cooperative models
- When women control the common account they receive less than when men control it
- →contradicts bargaining models

# 2. Main conclusions (cont'd)

- Women contribute less
- Women contribution rewarded more generously by men that vice versa
- →casts doubt on Sen's (1990) perceived contributions idea
- Absence of altruism rejected 'love has got something to do with'
- Evidence of opportunism hiding initial endowments even when one is in charge of common account

# 3. The games

- The games are played between real married couples in the two Ugandan villages
- The protocol of the games is similar to common pool games
- Different amounts of money given to each spouse (money placed in a private account; breakdown position/threat point)

### 3. The games (cont'd)

Three variations in allocating USh 4000

Husband	Wife
4000	0
0	4000
2000	2000

### 3. The games (cont'd)

- Voluntary Contribution Mechanism:
  - husband and wife place money (privately) into a common account (the production of a household public good)
  - any money they place there increases by a factor of 1.5

### 3. The games (cont'd)

- Three variations in the distribution of the common account (final funds):
  - the common account is split 50%:50%
     between the spouses (played only in Sironko)
  - give the common account to the wife, she decides how much the husband gets
  - give the common account to the husband, he decides how much the wife gets
- the mechanism for allocating common account is known beforehand

### 4. The villages

- Participants live in two south-eastern villages of Uganda (towards the Kenyan border) – Sironko and Bufumbo
- Islam is dominant in Bufumbo
- All seven games played in Sironko but only two games in Bufumbo (not enough participants)
- At least 25 participants in each game
- 240 couples: 191 in Sironko and 49 in Bufumbo

# The villages (cont'd)

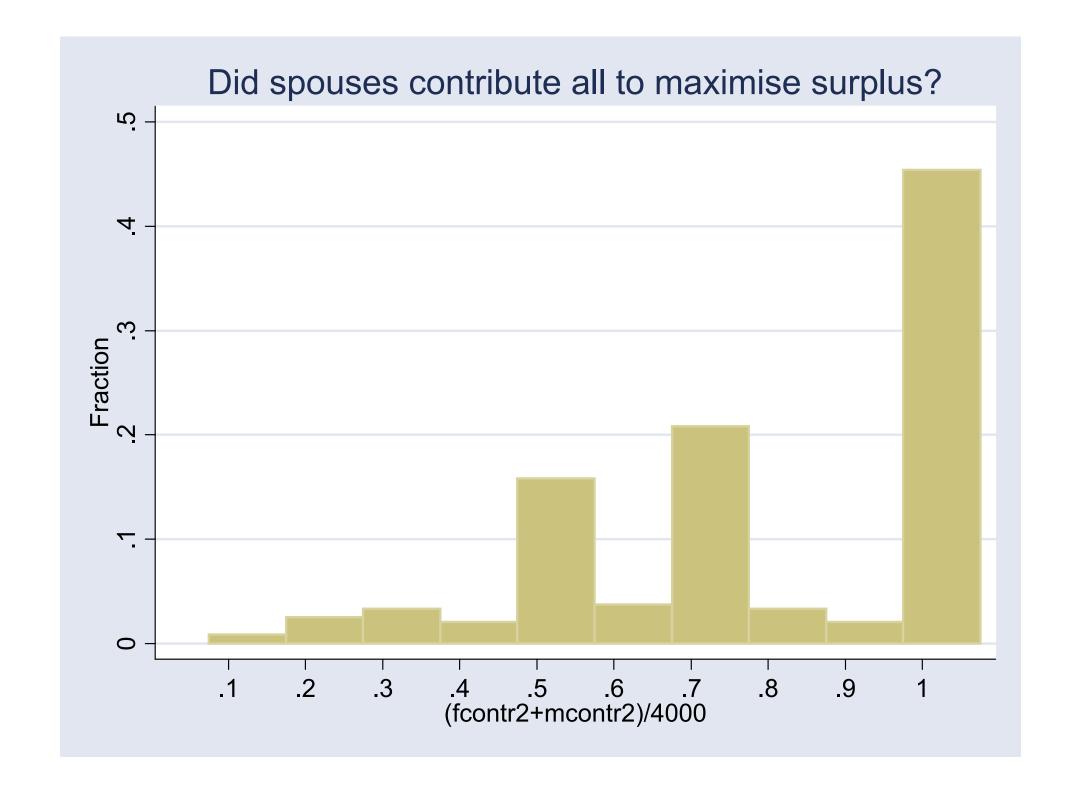
Variations in the games			
	(hus:4000,	(hus:2000,	(hus:0,
	wif:0)	wif:2000)	wif:4000)
50%:50	√	√	√
%	(game 1)	(game 4)	(game 7)
Wife	√	√	X
decides	(game 2)	(game 5 & 9-B)	
Husband decides	X	√ (game 3 & 8-B)	√ (game 6)

#### 5. Results

- No finished product yet
- Exploring some avenues
- A review of our explorations is presented here

# Is within marriage surplus maximised?

- If spouses pool their resources and trust each other, they should contribute all endowments
- Only in 45% of the cases do spouses contribute all (see histogram)



# Is within marriage surplus maximised? (cont'd)

- t-tests for contribution of all endowments are rejected (t = -13.9813 with p-value=0)
- t-tests for each game
  - the only two games where contribution of all endowments is accepted at 5% (not 1%) are in games 1 & 2
- i.e., when husbands have all endowment and there is either 50:50 split or wife decides

### Do women contribute more?

Games	Mean (median) contributions of	
	Husbands	Wives
1(h4000;50%)	3615 (4000)	
2(h4000;w)	3760 (4000)	
3(h2000;h)	1574 (2000)	1296 (1000)
4(h2000;50%)	1567 (2000)	1510 (2000)
5(h2000;w)	1800 (2000)	1580 (2000)
6(h0;h)		3331 (3500)
7(h0;50%)		3547 (4000)
8(h2000;h) Buf	1116 (1000)	1021 (1000)
9(h2000;w) Buf	1192 (1500)	1352 (1500)

# Do women contribute more? (cont'd)

- Generally mean and median contributions of wives are less than husbands
- T-test for equality against the alternative of men's contribution to be higher rejected at 5% but not 1% level (t=2.2000; p-value = 0.0148)
- Women on the average contribute less

# Breakdown positions (threat points) influence final agreement

- If threat points matter, higher initial endowments should increase receipts
- Compare receipts of games 2 & 5 and games 3 & 6 (see next table)
- Particularly wives' receipts increase with their initial endowment
  - wives get statistically higher in game 6 than 3
  - but for husbands the difference is not significant

# Breakdown positions (threat points) influence final agreement (cont'd)

	Mean (median) receipts of	
	Husbands	Wives
Game 2 (h4000;w)	3108 (3000)	2532 (2500)
Game 5 (h2000;w)	2660 (2000)	2376 (2500)
Game 3 (w2000;h)	1893 (2000)	2419 (2000)***
Game 6 (w4000;h)	1164 (1000)	3885 (3500)***

# Reciprocity

- If there is reciprocity the receipt of a husband (wife) increases with his (her) contribution when the wife (husband) decides the split
- Wife (husband) decides in games 2, 5 & 9

   (3, 6 & 8); with reciprocity husbands'
   (wives') receipt should significantly be correlated to husbands contribution in games 2, 5 & 9 (3, 6 & 8)

# Reciprocity (cont'd)

CLAD estimates			
(boostrapped standard errors given in brackets)			
Variables	Husband's receipts - wives decide (2,5,9)	Wives receipts - husbands decide (3,6,8)	
Husband's contribution	0.75 (.2249)	0.83 (.3383)	
Wife's contribution	0.75 (.3871)	1.5 (.3092)	
Constant	-1.09e-11 (652.6620)	-1000 (729.0052)	

# Reciprocity (cont'd)

- When wives decide, for husbands' one USh contribution, they give only USh 0.75
- When husbands decide, for wives' one USh contribution, husbands give USh 1.5
  - the full principal plus the surplus